

CLASS-9

BIOLOGY

LAB ACTIVITY: PREPARATION OF STAINED TEMPORARY MOUNTS OF ONION PEEL

The experiment conducted in the lab under the guidance of the teachers helped the students understand the preparation and staining of a temporary amount of onion peel. The students keenly observed the cell structure, including the cell wall, nucleus, and cytoplasm, which was clearly visible under the microscope. Every single exposition was unique, as each student showed imaginative skills in his /her own way.



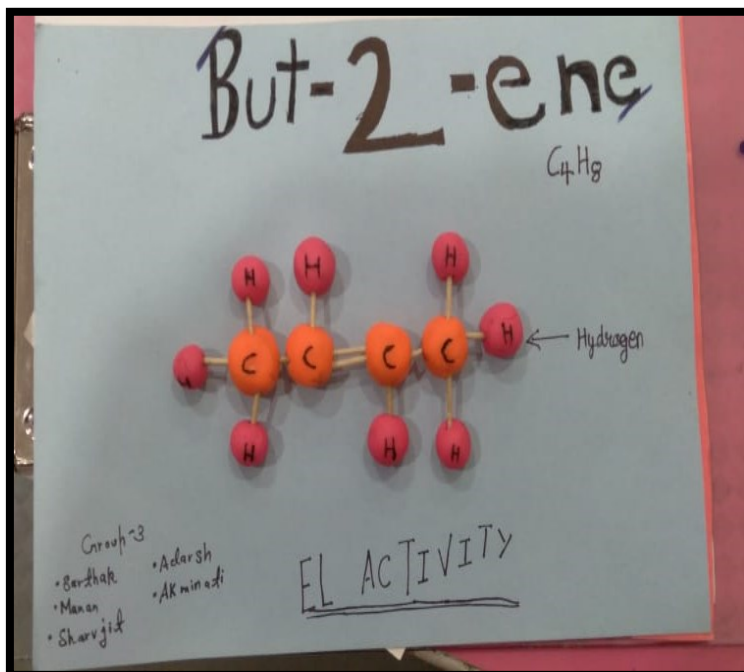
The students developed skills in using laboratory tools, gained hands-on experience with microscopic techniques, and enhanced their understanding of cell theory.

CLASS-10

CHEMISTRY

ACTIVITY: BALL AND STICK MODELS

Preparing a 3-D MODEL of saturated hydrocarbon using waste materials was a creative activity. This activity enhanced understanding of hydrocarbon structures and promoted recycling and creative use of waste materials. They visualized the arrangement of atoms and bonds, reinforcing theoretical concepts. By assembling the model, students learned how carbon forms four covalent bonds. The students developed a hands-on approach to representing molecular structures. It also promoted awareness of waste recycling and sustainable practices. The creativity and problem-solving skills of the students were enhanced.





LAB ACTIVITY: TO STUDY THE PROPERTIES OF ETHANOIC ACID

This experiment successfully demonstrated the physical and chemical properties of ethanoic acid, including its acidic nature, ability to react with bases and carbonates, and formation of esters. The students were able to learn the nature of acid through pH strip and were also able to successfully conduct the chemical test to differentiate between ethanol and ethanoic acid.

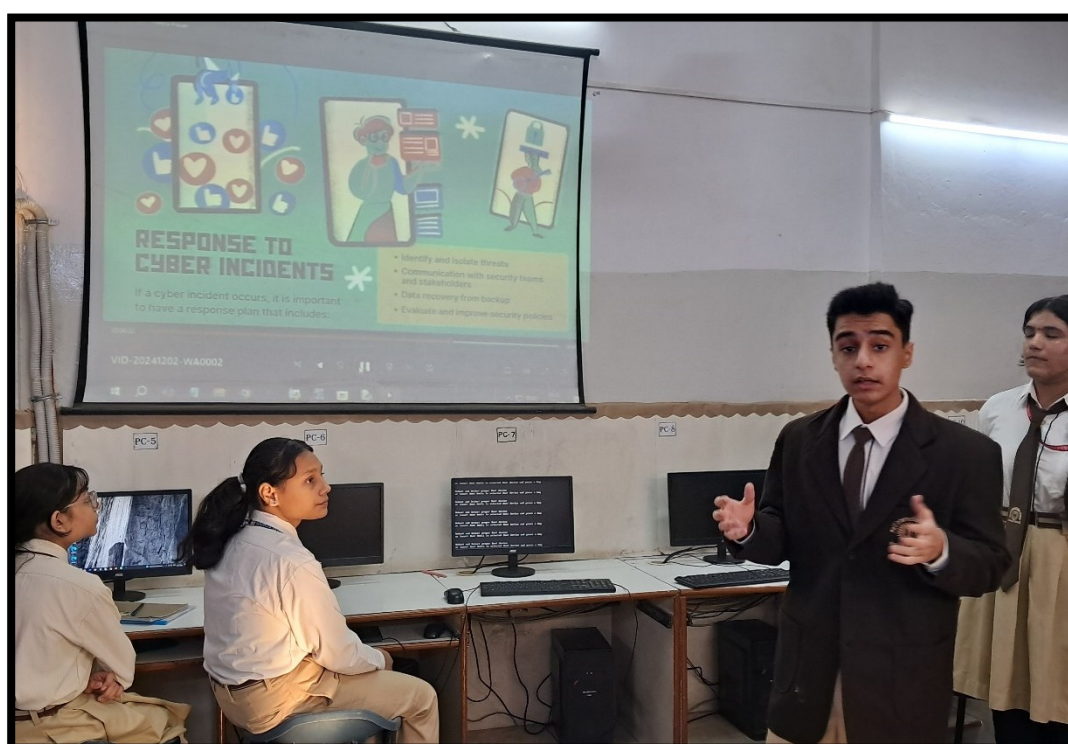
Through this activity, the students understood the weak acidic nature of ethanoic acid and observed its miscibility with water and its boiling point. It also contributed to teamwork and collaboration with peers to conduct experiments and share observations.



INFORMATION TECHNOLOGY

ACTIVITY: CYBER SAFETY AND SECURITY- PPT PRESENTATION

In the digital age, understanding and practising cyber safety and security is essential. This activity aimed to educate students on cyber threats and best practices for online safety by creating an informative and visually engaging PowerPoint Presentation. Students were tasked with researching and presenting key topics to enhance awareness and promote responsible online behaviour. Students used Microsoft PowerPoint, and Libre Office Impress to create slides with a focus on clarity, creativity, and informative content. A question-answer session followed each presentation, encouraging peer interaction and critical thinking. This activity equipped students with the knowledge to navigate the digital world safely while developing technical and presentation skills.





BIOLOGY

LAB ACTIVITY: TO COMPOSE A TEMPORARY MOUNT OF A LEAF PEEL TO REVEAL STOMATA, TO RECOGNIZE THE DIFFERENT PARTS OF AN EMBRYO OF A DICOT SEED, TO MANIFEST EXPERIMENTALLY THAT CARBON DIOXIDE IS GIVEN OUT DURING RESPIRATION

To enhance the practical knowledge of the students, two lab activities were conducted. Each student made a temporary mount of a leaf peel. They displayed their slides to reveal plant cells, stomata and their associated structures. Every single exposition was a unique involvement as the individual child displayed their imaginative skills in his/ her way.

The students demonstrated the release of CO₂ through an experimental setup. After watching and observing lime water milky they got to know the increase of CO₂ level in it. They also saw permanent slides of binary fission and budding in yeast which further clarified their concepts. These lab activities not only boosted their scientific aptitude but their ingenuity, critical thinking, and expressiveness were brushed up.

